INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08712

C		<u></u>	C170504700712			
A. CLASSIFICATION OF SUBJECT MATTER						
US CL	IPC(7) : C02F 1/64, 1/74, 9/00					
US CL : 210/721, 722, 747, 758, 170, 199, 911, 912 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum do	ocumentation searched (classification system followed	by classification symbols)				
U.S. : 210/721, 722, 747, 758, 143, 170, 199, 911, 912						
Documentati	on searched other than minimum documentation to the	extent that such documen	its are included in	the fields searched		
and the state of t						
Electronic da	ata base consulted during the international search (nan	e of data base and, where	practicable, sear	ch terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a	ppropriate of the relevan	t nassages	Relevant to claim No.		
Х	US 5,362,400 A (MARTINELL) 08 November 199	4 (08.11.1994) entire do	cument	1, 2, 4-6, 8/1, 8/2,		
		· (00.11.1554), chine uo	Junion.	8/4, 8/5 and 8/6		
Y			•			
				3, 7, 8/3, 8/7 and 10-		
				12		
x	US 2003/0029792 A1 (KERFOOT) 13 February 20	03 (13.02.2003), paragrap	hs 0021 and	1, 3 and 13-15		
 Y	0050.			***************************************		
•				3, 7, 8/3, 8/7 and 10-		
				12		
Further	documents are listed in the continuation of Box C.	See patent fan	nily anney			
	pecial categories of cited documents:		•	mational filing date or priority		
		date and not in c	onflict with the applica	mational filing date or priority		
"A" document of particul	defining the general state of the art which is not considered to be	principle or theor	ry underlying the inve	ntion		
•		"X" document of part	icular relevance: the o	laimed invention cannot be		
"E" carlier app	plication or patent published on or after the international filing date	considered novel	or cannot be consider	ed to involve an inventive step		
"L" document	which may throw doubts on priority claim(s) or which is cited to	when the docume	ent is taken alone			
establish ti specified)	he publication date of another citation or other special reason (as	"Y" document of part	icular relevance; the c	laimed invention cannot be		
•		considered to inv	olve an inventive step	when the document is documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to	a person skilled in the	art		
"P" document published prior to the international filing date but later than the		"&" document membe	er of the came nate of	amilu		
occument published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				annay		
Date of the actual completion of the international search Date of mailing of the international search report				h report		
			1 0	ALIC ASSA		
23 July 2004 (23.07.2004) Name and mailing address of the ISA/US Authorized officer (1)				AUb/9114		
	Stop PCT, Attn: ISA/US	Aumorized officer	Authorized officer			
	missioner for Patents	Ivars C. Cintins				
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Facsimile No. (703) 305-3230						

Form PCT/ISA/210 (second sheet) (July 1998)

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in	respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claim Nos.: because they relate to subject matter r	not required to be searched by this Authority, namely:			
Claim Nos.: because they relate to parts of the internation an extent that no meaningful internation	ernational application that do not comply with the prescribed requirements to such onal search can be carried out, specifically:			
3. Claim Nos.: 9 because they are dependent claims and	d are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention	on is lacking (Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple	le inventions in this international application, as follows:			
As all required additional search fees searchable claims.	were timely paid by the applicant, this international search report covers all			
2. As all searchable claims could be sear payment of any additional fee.	ched without effort justifying an additional fee, this Authority did not invite			
3. As only some of the required additional	al search fees were timely paid by the applicant, this international search report es were paid, specifically claims Nos.:			
restricted to the invention first mention	re timely paid by the applicant. Consequently, this international search report is ned in the claims; it is covered by claims Nos.:			
No protest accompa	nied the payment of additional search fees.			